MAR 0 3 2004 STATE A THEORY AND THE

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Kilkuskie, Robert E.
 Frank, Bruce L.
 Goodchild, John
 Wolfe, Jia L.
 Roberts, Peter C.
 Hamlin, Jr., Henry A.
 Roberts, Noel A.
 Walther, Debra M.
- (ii) TITLE OF INVENTION: Oligonucleotides Specific for Hepatitis C Virus
- (iii) NUMBER OF SEQUENCES: 173
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Hale and Dorr LLP
 - (B) STREET: 60 State Street
 - (C) CITY: Boston
 - (D) STATE: MA
 - (E) COUNTRY: USA
 - (F) ZIP: 02109
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/887,505
 - (B) FILING DATE: 02-JUL-1997
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/471,968
 - (B) FILING DATE: 06-JUN-1995
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Kerner, Ann-Louise
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 - (C) REFERENCE/DOCKET NUMBER: 47508-250HYZ-040CIP
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (617) 526-6000
 - (B) TELEFAX: (617) 526-5000
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single

| | (D) TOPOLOGY: linear | |
|-----------|--|----|
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:1: | |
| GGTGCACG | GT CTACGAGACC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:2: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:2: | |
| CATGGTGC. | AC GGTCTACGAG | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:3: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:3: | |
| GCTCATGG | TG CACGGTCTAC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:4: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |

| (iii) | HYPOTHETICAL: NO | |
|----------|--|----|
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:4: | |
| GTGCTCAT | GG TGCACGGTCT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:5: | |
| | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:5: | |
| CGTGCTCA | TG GTGCACGGTC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:6: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:6: | |
| TTCGTGCT | CA TGGTGCACGG | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:7: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEO ID NO:7: | |

| GGATTCGT | GC TCATGGTGCA | 20 |
|----------|--|----|
| (2) INFO | RMATION FOR SEQ ID NO:8: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:8: | |
| TTAGGATT | CG TGCTCATGGT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:9: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:9: | |
| GGTTTAGG | AT TCGTGCTCAT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:10: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:10: | |
| TGAGGTTT | AG GATTCGTGCT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:11: | |

(i) SEQUENCE CHARACTERISTICS:

| | (A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear | |
|----------|--|----|
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:11: | |
| CTTTGAGG | TT TAGGATTCGT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:12: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:12: | |
| TTCTTTGA | GG TTTAGGATTC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:13: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:13: | |
| TACGTTTG | GT TTTTCTTTGA | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:14: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |

| (ii) | MOLECULE TYPE: DNA | |
|----------|--|----|
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:14: | |
| GTTGGTGT | TA CGTTTGGTTT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:15: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:15: | |
| GCACGACA | CT CATACTAACG | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:16: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:16: | |
| GGCTGCAC | GA CACTCATACT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:17: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |

| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17: | |
|--|----|
| TGGAGGCTGC ACGACACTCA | 20 |
| (2) INFORMATION FOR SEQ ID NO:18: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18: | |
| GTCCTGGAGG CTGCACGACA | 20 |
| (2) INFORMATION FOR SEQ ID NO:19: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19: | |
| GGGGGTCCTG GAGGCTGCAC | 20 |
| (2) INFORMATION FOR SEQ ID NO:20: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20: | |
| GAGGGGGGT CCTGGAGGCT | 20 |
| (2) INFORMATION FOR SEQ ID NO:21: | |

| (1) | (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|----------|--|----|
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:21: | |
| CCGGGAGG | GG GGGTCCTGGA | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:22: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:22: | |
| GGCTCTCC | CG GGAGGGGGG | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:23: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:23: | |
| CCACTATG | GC TCTCCCGGGA | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:24: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |

| (ii) | MOLECULE TYPE: DNA | |
|-----------|--|----|
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:24: | |
| AACACTACT | TC GGCTAGCAGT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:25: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:25: | |
| ACCCAACA | CT ACTCGGCTAG | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:26: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:26: | |
| CGACCCAA | CA CTACTCGGCT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:27: | |
| | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |

| (xi |) SEQUENCE DESCRIPTION: SEQ ID NO:27: | |
|---------|---|----|
| CGCGACC | CAA CACTACTCGG | 20 |
| (2) INF | ORMATION FOR SEQ ID NO:28: | |
| (i |) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii |) MOLECULE TYPE: DNA | |
| (iii |) HYPOTHETICAL: NO | |
| (iv |) ANTI-SENSE: YES | |
| (xi |) SEQUENCE DESCRIPTION: SEQ ID NO:28: | |
| TTCGCGA | CCC AACACTACTC | 20 |
| (2) INF | ORMATION FOR SEQ ID NO:29: | |
| (i |) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii |) MOLECULE TYPE: DNA | |
| (iii |) HYPOTHETICAL: NO | |
| (iv | ANTI-SENSE: YES | |
| (xi |) SEQUENCE DESCRIPTION: SEQ ID NO:29: | |
| CTTTCGC | GAC CCAACACTAC | 20 |
| (2) INF | ORMATION FOR SEQ ID NO:30: | |
| (i | .) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii |) MOLECULE TYPE: DNA | |
| (iii |) HYPOTHETICAL: NO | |
| (iv | r) ANTI-SENSE: YES | |
| (xi |) SEQUENCE DESCRIPTION: SEQ ID NO:30: | |
| GCCTTTC | CGCG ACCCAACACT | 20 |
| (2) INE | FORMATION FOR SEQ ID NO:31: | |

| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|----------|--|----|
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:31: | |
| AGGCCTTT | CG CGACCCAACA | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:32: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:32: | |
| CAAGGCCT | TT CGCGACCCAA | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:33: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:33: | |
| CACAAGGC | CT TTCGCGACCC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:34: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |

| (ii) | MOLECULE TYPE: DNA | |
|----------|--|----|
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:34: | |
| ACCACAAG | GC CTTTCGCGAC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:35: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:35: | |
| AGTACCAC | AA GGCCTTTCGC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:36: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:36: | |
| GTCTACGA | GA CCTCCCGGG | 19 |
| (2) INFO | RMATION FOR SEQ ID NO:37: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |

(iv) ANTI-SENSE: YES

| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37: | |
|--|----|
| GCACGGTCTA CGAGACCTCC | 20 |
| (2) INFORMATION FOR SEQ ID NO:38: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38: | |
| GGGGUCCUGG AGNNNNNN | 18 |
| (2) INFORMATION FOR SEQ ID NO:39: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39: | |
| GGGGUCCUGG AGGACCGG | 18 |
| (2) INFORMATION FOR SEQ ID NO:40: | |
| (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40: | |
| GACCGGGGGG UCCUGGAG | 18 |
| (2) INFORMATION FOR SEQ ID NO:41: | |

| (1) | (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|----------|--|----|
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:41: | |
| GGGGUCCU | GG AGAGGATT | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:42: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:42: | |
| AGGATTGG | GG UCCUGGAG | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:43: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:43: | |
| GGGGUCCU | GG AGCATGGT | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:44: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |

| (ii) | MOLECULE TYPE: DNA/RNA | |
|----------|--|----|
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:44: | |
| CATGGTGG | GG UCCUGGAG | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:45: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:45: | |
| GGGGUCCU | GG AGCGTGCT | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:46: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:46: | |
| CGTGCTGG | GG UCCUGGAG | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:47: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |

| (x | i) SEQUENCE DESCRIPTION: SEQ ID NO:47: | |
|--------|---|----|
| GGGGUC | CUGG AG | 12 |
| (2) IN | FORMATION FOR SEQ ID NO:48: | |
| (| i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (i | i) MOLECULE TYPE: DNA | |
| (ii | i) HYPOTHETICAL: NO | |
| (i | v) ANTI-SENSE: YES | |
| (x | i) SEQUENCE DESCRIPTION: SEQ ID NO:48: | |
| GGGGTC | CTGG AGCATGGTGC ACGG | 24 |
| (2) IN | FORMATION FOR SEQ ID NO:49: | |
| (| i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (i | i) MOLECULE TYPE: DNA/RNA | |
| (ii | i) HYPOTHETICAL: NO | |
| (i | v) ANTI-SENSE: YES | |
| (x | i) SEQUENCE DESCRIPTION: SEQ ID NO:49: | |
| GGGGUC | CUGG AGGGTGCA | 18 |
| (2) IN | FORMATION FOR SEQ ID NO:50: | |
| (| i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (i | i) MOLECULE TYPE: DNA/RNA | |
| (ii | i) HYPOTHETICAL: NO | |
| (i | v) ANTI-SENSE: YES | |
| (x | i) SEQUENCE DESCRIPTION: SEQ ID NO:50: | |
| GGTGCA | GGGG UCCUGGAG | 18 |
| (2) IN | FORMATION FOR SEQ ID NO:51: | |

| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|----------|--|----|
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:51: | |
| GGGGUCCU | GG AGGCTCAT | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:52: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:52: | |
| GCTCATGG | GG TCCTGGAG | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:53: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:53: | |
| GGGGUCCU | GG AGATTCGT | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:54: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |

| (ii) | MOLECULE TYPE: DNA/RNA | |
|----------|--|----|
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:54: | |
| ATTCGTGG | GG UCCUGGAG | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:55: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:55: | |
| GGGGTCCT | GG AGAGGATTCG TGCT | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:56: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:56: | |
| GGGGUCCU | GG AGCGTGCTCA TGGT | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:57: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |

| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57: | |
|--|----|
| CATGGTGCAC GGGGGGTCCT GGAG | 24 |
| (2) INFORMATION FOR SEQ ID NO:58: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: | |
| TGGATTCGTG CAGGGGTCCT GGAG | 24 |
| (2) INFORMATION FOR SEQ ID NO:59: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59: | |
| CGTGCTCATG GTGGGGTCCT GGAG | 24 |
| (2) INFORMATION FOR SEQ ID NO:60: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60: | |
| GGGGTCCTGG AGATTCGTGC TCAT | 24 |
| (2) INFORMATION FOR SEQ ID NO:61: | |

| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|----------|--|----|
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:61: | |
| ATTCGTGC | TC ATGGGGTCCT GGAG | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:62: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:62: | |
| GGGGTCCT | GG AGTGGTGCAC GGTC | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:63: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:63: | |
| TGGTGCAC | GG TCGGGGTCCT GGAG | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:64: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |

| (ii) | MOLECULE TYPE: DNA/RNA | |
|----------|--|----|
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:64: | |
| GGGGUCCU | GG AGGCTCATGG TGCA | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:65: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:65: | |
| GCTCATGG | TG CAGGGGUCCU GGAG | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:66: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:66: | |
| GGGGTCCT | GG AGGCACGGTC TACG | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:67: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |

| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67: | |
|--|----|
| GGGGUCCUGG AGNNNNNNN NNNN | 24 |
| (2) INFORMATION FOR SEQ ID NO:68: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68: | |
| TTCGCGACCC AACACTACTC GGCTAGCA | 28 |
| (2) INFORMATION FOR SEQ ID NO:69: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69: | |
| CATGGCTAGA CGCTTTCTGC | 20 |
| (2) INFORMATION FOR SEQ ID NO:70: | |
| (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:70: | |
| CTCGCGGGGG CACGCCCAAA | 20 |
| (2) INFORMATION FOR SEQ ID NO:71: | |

| (1) | (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|-----------|--|----|
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:71: | |
| TGAGCGGG' | TT GATCCAAGAA | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:72: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:72: | |
| GATCCAAG. | AA AGGACCCGGT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:73: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:73: | |
| GGCTAGCA | GT CTCGCGGGG | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:74: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |

| (ii) | MOLECULE TYPE: DNA | |
|----------|--|----|
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:74: | |
| GCCTTTCG | CG ACCCAACACT ACTCGGCT | 28 |
| (2) INFO | RMATION FOR SEQ ID NO:75: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:75: | |
| CTTTCGCG | AC CCAACACTAC TCGG | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:76: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:76: | |
| CGCGACCC | AA CACTAC | 16 |
| (2) INFO | RMATION FOR SEQ ID NO:77: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |

| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77: | |
|--|----|
| GGGGCACTCG CAAGCACCCT | 20 |
| (2) INFORMATION FOR SEQ ID NO:78: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78: | |
| GCACGGTCTA CG | 12 |
| (2) INFORMATION FOR SEQ ID NO:79: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79: | |
| GCACGGTCTA CG | 12 |
| (2) INFORMATION FOR SEQ ID NO:80: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80: | |
| CAACACUACU CG | 12 |
| (2) INFORMATION FOR SEQ ID NO:81: | |

| (1, | (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|---------|--|----|
| (ii | MOLECULE TYPE: DNA | |
| (iii | HYPOTHETICAL: NO | |
| (iv | ANTI-SENSE: YES | |
| (xi | SEQUENCE DESCRIPTION: SEQ ID NO:81: | |
| CAACGAT | CTG ACCTCCGCCC G | 21 |
| (2) INF | ORMATION FOR SEQ ID NO:82: | |
| (i | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii |) MOLECULE TYPE: DNA | |
| (iii |) HYPOTHETICAL: NO | |
| (iv | ANTI-SENSE: YES | |
| (x | i) SEQUENCE DESCRIPTION: SEQ ID NO:82: | |
| TACTCAC | CGG TTCCGCAGAC | 20 |
| (2) INF | ORMATION FOR SEQ ID NO:83: | |
| (i | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii |) MOLECULE TYPE: DNA | |
| (iii |) HYPOTHETICAL: NO | |
| (iv |) ANTI-SENSE: YES | |
| (x | i) SEQUENCE DESCRIPTION: SEQ ID NO:83: | |
| GTGTACT | CAC CGGTTCCGCA | 20 |
| (2) INF | ORMATION FOR SEQ ID NO:84: | |
| (i |) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single | |

| | (D) TOPOLOGY: linear | |
|----------|--|----|
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:84: | |
| GGCAATTC | CG GTGTACTCAC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:85: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:85: | |
| CCTGGCAA | TT CCGGTGTACT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:86: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi |) SEQUENCE DESCRIPTION: SEQ ID NO:86: | |
| CGTCCTGG | CA ATTCCGGTGT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:87: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |

| (iv) | ANTI-SENSE: YES | |
|----------|--|----|
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:87: | |
| GGTCGTCC | IG GCAATTCCGG | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:88: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:88: | |
| GACCCGGT | CG TCCTGGCAAT | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:89: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:89: | |
| CAAGAAAG | GA CCCGGTCGTC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:90: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:90: | |

| TGATCCAAC | JA AAGGACCCGG T | 21 |
|-----------|--|----|
| (2) INFO | RMATION FOR SEQ ID NO:91: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:91: | |
| GGTTGATC | CA AGAAAGGACC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:92: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:92: | |
| GCGGGTTG | AT CCAAGAAAGG | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:93: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:93: | |
| CATTGAGC | GG GTTGATCCAA | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:94: | |
| (i) | SEQUENCE CHARACTERISTICS: | |

| | | (A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear | |
|------|-------|--|----|
| | (ii) | MOLECULE TYPE: DNA | |
| (| (iii) | HYPOTHETICAL: NO | |
| | (iv) | ANTI-SENSE: YES | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:94: | |
| AGGC | CATTG | AG CGGGTTGATC | 20 |
| (2) | INFO | RMATION FOR SEQ ID NO:95: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| (| (iii) | HYPOTHETICAL: NO | |
| | (iv) | ANTI-SENSE: YES | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:95: | |
| CATA | GAGG | G CCAAGGGTAC | 20 |
| (2) | INFO | RMATION FOR SEQ ID NO:96: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| (| (iii) | HYPOTHETICAL: NO | |
| | (iv) | ANTI-SENSE: YES | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:96: | |
| CCCG | GGAG | 3 | 9 |
| (2) | INFO | RMATION FOR SEQ ID NO:97: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |

| (11) | MOLECULE TYPE: DNA/RNA | |
|----------|--|----|
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:97: | |
| CACUAUGG | כט כט | 12 |
| (2) INFO | RMATION FOR SEQ ID NO:98: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:98: | |
| UUCCGCAG | AC CA | 12 |
| (2) INFO | RMATION FOR SEQ ID NO:99: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:99: | |
| GGUCGUCC | UG GC | 12 |
| (2) INFO | RMATION FOR SEQ ID NO:100: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |

| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:100: | |
|----------|--|----|
| AAAUCUCC | AG GC | 12 |
| (2) INFO | RMATION FOR SEQ ID NO:101: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:101: | |
| CGACCCAA | CA CU | 12 |
| (2) INFO | RMATION FOR SEQ ID NO:102: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:102: | |
| AGUACCAC | AA GG | 12 |
| (2) INFO | RMATION FOR SEQ ID NO:103: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:103: | |
| CCUCCCGG | G | 9 |

| (2) INF | ORMATION FOR SEQ ID NO:104: | |
|---------|---|---|
| (i |) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii |) MOLECULE TYPE: DNA | |
| (iii |) HYPOTHETICAL: NO | |
| (iv |) ANTI-SENSE: YES | |
| (xi |) SEQUENCE DESCRIPTION: SEQ ID NO:104: | |
| ACGAGA | | 6 |
| (2) INF | ORMATION FOR SEQ ID NO:105: | |
| (i |) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii |) MOLECULE TYPE: DNA | |
| (iii |) HYPOTHETICAL: NO | |
| (iv |) ANTI-SENSE: YES | |
| (xi |) SEQUENCE DESCRIPTION: SEQ ID NO:105: | |
| GGTTTA | | 6 |
| (2) INF | ORMATION FOR SEQ ID NO:106: | |
| (i |) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii |) MOLECULE TYPE: DNA | |
| (iii |) HYPOTHETICAL: NO | |
| (iv |) ANTI-SENSE: YES | |
| (х | i) SEQUENCE DESCRIPTION: SEQ ID NO:106: | |
| TTTGAG | | 6 |
| (2) INF | ORMATION FOR SEQ ID NO:107: | |
| (i |) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 base pairs (B) TYPE: nucleic acid | |

| | (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|----------|---|---|
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:107: | |
| TTTTCT | | 6 |
| (2) INFO | RMATION FOR SEQ ID NO:108: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:108: | |
| GGCTGA | | 6 |
| (2) INFO | RMATION FOR SEQ ID NO:109: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:109: | |
| ACCCGG | | 6 |
| (2) INFO | RMATION FOR SEQ ID NO:110: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| , | WALLEY TO THE TOTAL | |

(ii) MOLECULE TYPE: DNA

| (iii) | HYPOTHETICAL: NO | |
|----------|--|----|
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:110: | |
| AGGGTA | | 6 |
| (2) INFO | RMATION FOR SEQ ID NO:111: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:111: | |
| TTCGCGAC | CC AACACTACT | 19 |
| (2) INFO | RMATION FOR SEQ ID NO:112: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:112: | |
| TTCGCGAC | CC AACACTAC | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:113: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEO ID NO:113: | |

| TTCGCGACCC AACACTA | 17 |
|--|----|
| (2) INFORMATION FOR SEQ ID NO:114: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114: | |
| TCGCGACCCA ACACTACTC | 19 |
| (2) INFORMATION FOR SEQ ID NO:115: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115: | |
| CGCGACCCAA CACTACTC | 18 |
| (2) INFORMATION FOR SEQ ID NO:116: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116: | |
| GCGACCCAAC ACTACTC | 17 |
| (2) INFORMATION FOR SEQ ID NO:117: | |

| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|----------|--|----|
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:117: | |
| TTNGCGAC | CC AACACTACTC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:118: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:118: | |
| TTCGCNAC | CC AACNCTACTC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:119: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:119: | |
| TTCGCGAC | CC AACACTACUC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:120: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |

| (ii) | MOLECULE TYPE: DNA/RNA | |
|----------|--|----|
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:120: | |
| TTCGCGAC | CC AACACTACUC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:121: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:121: | |
| TTCGCGAC | CC AACACTACUC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:122: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:122: | |
| UUCGCGAC | CC AACACUACUC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:123: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |

(iii) HYPOTHETICAL: NO

| (iv) | ANTI-SENSE: YES | |
|-------------|--|----|
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:123: | |
| UUCGCGAC | CC AACACUACUC | 20 |
| (2) INFOR | RMATION FOR SEQ ID NO:124: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:124: | |
| UUCGCGAC | CC AACACUACUC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:125: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:125: | |
| UUCGCGAC | CC AACACUACUC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:126: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:126: | |
| TTCCCCC A C | <u> </u> | 20 |

| (2) INFO | RMATION FOR SEQ ID NO:127: | |
|----------|--|----|
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:127: | |
| TTCGCGAC | CC AACACTACTC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:128: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:128: | |
| TTCGCGAC | CC AACACTACTC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:129: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:129: | |
| TTCGCGAC | CC AACACTACTC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:130: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs | |

| | (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|-----------|--|------|
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:130: | |
| TTCGCGAC | CC AACACTACTC | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:131: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:131: | |
| TTCGCGAC | CC AACACTACTC GTGTTG | . 26 |
| (2) INFO | RMATION FOR SEQ ID NO:132: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:132: | |
| AGTACCAC. | AA GGCCTTTCGC CTTG | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:133: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA | |

| (111) | HYPOTHETICAL: NO | |
|----------|--|----|
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:133: | |
| GCCTTTCG | CG ACCCAACACT GGGTC | 25 |
| (2) INFO | RMATION FOR SEQ ID NO:134: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:134: | |
| CAACACUA | CU CGACTCGCAA | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:135: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:135: | |
| ACTCGCAA | CA ACACUACUCG | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:136: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |

| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:136: | |
|--|----|
| GGTCCTGGAG CAACACUACU | 20 |
| (2) INFORMATION FOR SEQ ID NO:137: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:137: | |
| CAACACUACU GGTCCTGGAG | 20 |
| (2) INFORMATION FOR SEQ ID NO:138: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:138: | |
| GGCTCTCAAC ACUACUCG | 18 |
| (2) INFORMATION FOR SEQ ID NO:139: | |
| (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:139: | |
| CAACACUACU CGGGCTCT | 18 |
| (2) INFORMATION FOR SEQ ID NO:140: | |

| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|----------|--|----|
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:140: | |
| CGCAAGCA | CA ACACUACUCG | 20 |
| (2) INFO | RMATION FOR SEQ ID NO:141: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:141: | |
| ACGAGAGG | GG UCCUGGAG | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:142: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:142: | |
| GGTTTAGG | GG UCCUGGAG | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:143: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single | |

| | (D) TOPOLOGY: linear | |
|----------|--|----|
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:143: | |
| TTTGAGGG | gg uccuggag | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:144: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:144: | |
| TTTTCTGG | GG UCCUGGAG | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:145: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:145: | |
| GGGGUCCU | GG AGGGCTGA | 18 |
| (2) INFO | RMATION FOR SEQ ID NO:146: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |

| (| iv) ANTI-SENSE: YES | |
|-------|--|----|
| (| xi) SEQUENCE DESCRIPTION: SEQ ID NO:146: | |
| GGGGU | CCUGG AGACCCGG | 18 |
| (2) I | NFORMATION FOR SEQ ID NO:147: | |
| | (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (| ii) MOLECULE TYPE: DNA/RNA | |
| (i | ii) HYPOTHETICAL: NO | |
| (| iv) ANTI-SENSE: YES | |
| (| xi) SEQUENCE DESCRIPTION: SEQ ID NO:147: | |
| GGGGU | CCUGG AGAGGGTA | 18 |
| (2) I | NFORMATION FOR SEQ ID NO:148: | |
| | (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (| ii) MOLECULE TYPE: DNA/RNA | |
| (i | ii) HYPOTHETICAL: NO | |
| (| iv) ANTI-SENSE: YES | |
| (| xi) SEQUENCE DESCRIPTION: SEQ ID NO:148: | |
| ACGAG | AGGGG UCCUGGAGGC UCAU | 24 |
| (2) I | NFORMATION FOR SEQ ID NO:149: | |
| | (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (| ii) MOLECULE TYPE: DNA/RNA | |
| (i | ii) HYPOTHETICAL: NO | |
| (| iv) ANTI-SENSE: YES | |
| (| xi) SEQUENCE DESCRIPTION: SEQ ID NO:149: | |

| AGGATTGGG | GG UCCUGGAGGC UCAU | 24 |
|-----------|--|----|
| (2) INFOR | RMATION FOR SEQ ID NO:150: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:150: | |
| GGTTTAGGG | GG UCCUGGAGGC UCAU | 24 |
| (2) INFOR | RMATION FOR SEQ ID NO:151: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:151: | |
| GGTTTAGC | JC AUGGGGUCCU GGAG | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:152: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:152: | |
| TTTGAGGG | GG UCCUGGAGGC UCAU | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:153: | |
| (i) | SEQUENCE CHARACTERISTICS: | |

| (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
|--|----|
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:153: | |
| TTTGAGGCUC AUGGGGUCCU GGAG | 24 |
| (2) INFORMATION FOR SEQ ID NO:154: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:154: | |
| TTTTCTGGGG UCCUGGAGGC UCAU | 24 |
| (2) INFORMATION FOR SEQ ID NO:155: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) MOLECULE TYPE: DNA/RNA | |
| (iii) HYPOTHETICAL: NO | |
| (iv) ANTI-SENSE: YES | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:155: | |
| TTTTCTGCUC AUGGGGUCCU GGAG | 24 |
| (2) INFORMATION FOR SEQ ID NO:156: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |

| (ii) | MOLECULE TYPE: DNA/RNA | |
|----------|--|----|
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:156: | |
| GCUCAUGG | GG UCCUGGAGGG GTGA | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:157: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:157: | |
| GCUCAUGG | GG UCCUGGAGAC CCGG | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:158: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:158: | |
| GCUCAUGG | GG UCCUGGAGAG GGTA | 24 |
| (2) INFO | RMATION FOR SEQ ID NO:159: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | • |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |

| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:159: | |
|-----------|--|----|
| CCCUCCGGG | G GTCCTG | 16 |
| (2) INFOR | RMATION FOR SEQ ID NO:160: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:160: | |
| GGGGGTCCT | CG CG | 10 |
| (2) INFOR | RMATION FOR SEQ ID NO:161: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:161: | |
| cccuccccc | CC CNGGGGGTCC TG | 22 |
| (2) INFOR | RMATION FOR SEQ ID NO:162: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:162: | |
| GGGGGNTCC | CT G | 11 |

| (2) INFO | RMATION FOR SEQ ID NO:163: | | |
|------------------------------------|--|----|--|
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | | |
| (ii) | MOLECULE TYPE: DNA/RNA | | |
| (iii) | HYPOTHETICAL: NO | | |
| (iv) | ANTI-SENSE: YES | | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:163: | | |
| CCCUCCGG | GG GNCCCCCTCC TG | 22 | |
| (2) INFO | RMATION FOR SEQ ID NO:164: | | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | | |
| (ii) | MOLECULE TYPE: DNA/RNA | | |
| (iii) | HYPOTHETICAL: NO | | |
| (iv) | ANTI-SENSE: YES | | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:164: | | |
| GGGGGNCC | CC CTCCTG | 16 | |
| (2) INFO | RMATION FOR SEQ ID NO:165: | | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | | |
| (ii) | MOLECULE TYPE: DNA/RNA | | |
| (iii) | HYPOTHETICAL: NO | | |
| (iv) | ANTI-SENSE: YES | | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:165: | | |
| CCCUCCGGGG GNTCCTG | | | |
| (2) INFORMATION FOR SEQ ID NO:166: | | | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: pucleic acid | | |

| | (C) STRANDEDNESS: single (D) TOPOLOGY: linear | | |
|----------|--|----|--|
| (ii) | MOLECULE TYPE: DNA/RNA | | |
| (iii) | HYPOTHETICAL: NO | | |
| (iv) | ANTI-SENSE: YES | | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:166: | | |
| GUCUACGA | GA GGGGGNCCCC CCCUCCCTCC TG | 32 | |
| (2) INFO | (2) INFORMATION FOR SEQ ID NO:167: | | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | | |
| (ii) | MOLECULE TYPE: DNA/RNA | | |
| (iii) | HYPOTHETICAL: NO | | |
| (iv) | ANTI-SENSE: YES | | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:167: | | |
| GUCUACGA | GA GGGGGNTCCT G | 21 | |
| (2) INFO | RMATION FOR SEQ ID NO:168: | | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | | |
| (ii) | MOLECULE TYPE: DNA/RNA | | |
| (iii) | HYPOTHETICAL: NO | | |
| (iv) | ANTI-SENSE: YES | | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:168: | | |
| GUCUACGA | GA GGGGGTCCTG | 20 | |
| (2) INFO | RMATION FOR SEQ ID NO:169: | | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | | |
| (ii) | MOLECULE TYPE: DNA/RNA | | |

| (111) | HYPOTHETICAL: NO | |
|----------|--|----|
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:169: | |
| GUCUACGA | GA NCCUCCCGGG GG | 22 |
| (2) INFO | RMATION FOR SEQ ID NO:170: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:170: | |
| GUCUACGA | GA NGGGGG | 16 |
| (2) INFO | RMATION FOR SEQ ID NO:171: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:171: | |
| CCCGGGAG | GG GGGGNCCCCC CCUCCCTCCT G | 31 |
| (2) INFO | RMATION FOR SEQ ID NO:172: | |
| (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| (ii) | MOLECULE TYPE: DNA/RNA | |
| (iii) | HYPOTHETICAL: NO | |
| (iv) | ANTI-SENSE: YES | |
| (xi) | SEOUENCE DESCRIPTION: SEO ID NO:172 | |

(2) INFORMATION FOR SEQ ID NO:173:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 302 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single

 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: YES
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:173:

| TCACGCAGAA | AGCGTCTAGC | CATGGCGTTA | GTATGAGTGT | CGTGCAGCCT | CCAGGACCCC | 60 |
|------------|------------|------------|------------|------------|------------|-----|
| CCCGGGAGAG | CCATAGTGGT | CTGCGGAACC | GGTGAGTACA | CCGGAATTGC | CAGGACGACC | 120 |
| GGGTCCTTTC | TTGGATCAAC | CCGCTCAATG | CCTGGAGATT | TGGGCGTGCC | CCCGCGAGAC | 180 |
| TGCTAGCCGA | GTAGTGTTGG | GTCGCGAAAG | GCCTTGTGGT | ACTGCCTGAT | AGGGTGCTTG | 240 |
| CGAGTGCCCC | GGGAGGTCTC | GTAGACCGTG | CACCATGAGC | ACGAATCCTA | AACCTCAAAG | 300 |
| AA | | | | | | 302 |